

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB-001-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 11

Complete If Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit TTT-1047
Examiner Name Unassigned
Attorney Docket Number 15270J-004752US

RECEIVED
NOV 05 2001
CENTER 1600/2600

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	186	6,150,091		Pandolfo et al.	11-21-2000	
	1	6,057,387		Stamler et al.	05-02-2000	
	2	5,958,883		Snow	09-28-1999	
	3	5,955,317		Suzuki et al.	09-21-1999	
	4	5,955,079		Mond et al.	09-21-1999	
	5	5,877,399		Hsiao et al.	03-02-1999	
	6	5,869,093		Weiner et al.	02-09-1999	
	7	5,869,054		Weiner et al.	02-09-1999	
	8	5,854,204		Findeis et al.	12-29-1998	
	9	5,851,996		Kline	12-22-1998	
	10	5,849,298		Weiner et al.	12-15-1998	
	11	5,837,473		Maggio et al.	11-17-1998	
	12	5,786,180		Konig et al.	07-28-1998	
	207	5,780,587		Potter	07-14-1998	
	13	5,753,624		McMichael et al.	05-19-1998	
	14	5,750,349		Suzuki et al.	05-12-1998	
	197	5,744,368		Goldgaber et al.	04-28-1998	
	211	5,736,142		Sette et al.	04-07-1998	
	15	5,733,547		Weiner et al.	03-31-1998	
	16	5,688,651		Solomon	11-18-1997	
	17	5,679,348		Nesburn et al.	10-21-1997	
	18	5,645,820		Haffer et al.	07-08-1997	
	19	5,641,474		Haffer et al.	06-24-1997	
	20	5,641,473		Haffer et al.	06-24-1997	
	21	5,612,486		McConlogue et al.	03-18-1997	
	22	5,605,811		Seubert et al.	02-25-1997	
	23	5,585,100		Mond et al.	12-17-1996	
	24	5,571,500		Haffer et al.	11-05-1996	
	25	5,571,499		Haffer et al.	11-05-1996	
	175	5,441,870		Seubert, et al.	08-15-1995	
	26	5,434,170		Andrulis, Jr.	07-18-1995	
	27	5,387,742		Cordell	02-07-1995	
	181	5,270,165		Van Nostrand et al.	12-14-1993	
	28	5,231,000		Majocha et al.	07-27-1993	

Examiner Signature

[Handwritten Signature]

Date Considered

12-5-02

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3169033 v1

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 065-10031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 11

Complete If Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit TTT/67
Examiner Name Unassigned Nichols
Attorney Docket Number 15270J-004752US

NOV 05 2001

RECEIVED

29	5,220,013	Ponte et al.	06-15-1993
30	5,208,036	Eppstein et al.	05-04-1993
31	5,192,753	McGeer et al.	03-09-1993
32	5,187,153	Cordell et al.	02-16-93
33	5,057,540	Kensil et al.	10-15-1991
198	5,004,697	Pardridge	04-0201991
34	4,666,829	Glennier et al.	05-19-1987



FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	35	EP	911 036	A2		04-28-1999		
	36	EP	868 918	A2		10-07-1998		
	37	EP	863 211	A1		09-09-1998		
	38	EP	845 270	A1		06-03-1998		
	39	EP	782 859	A1		07-09-1997		
	40	EP	683 234	A1		11-22-1995		
	41	EP	666 080	A1		08-08-1995		
	42	EP	652 962	B1		12-16-1998		
	43	EP	639 081	B1		11-03-1999		
	44	EP	613 007	A2		08-31-1994		
	45	EP	594 607	B1		08-27-1997		
	46	EP	561 087	B1		08-04-1999		
	47	EP	526 611	B1		05-28-1997		
	48	EP	506 785	B1		03-15-2000		
	49	EP	451 700	A1		10-16-1991		
	50	EP	440 619	B1		01-24-1996		
	51	EP	359 783	B1		11-29-1995		
	52	EP	276 723	B1		12-08-1993		
	187	EP	783 104	A1		07-09-1997		
	199	PCT	00/77178	A1		12-21-2000		
	188	PCT	00/43049	A1		07-27-2000		
	53	PCT	99/60024	A1		11-25-1999		
	54	PCT	99/60021	A2		11-15-1999		
	55	PCT	99/58564	A1		11-18-1999		
	56	PCT	99/06066	A2		02-11-1999		
	57	PCT	99/27949	A1		06-10-1999		

Examiner Signature

[Handwritten Signature]

Date Considered

12-8-02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3169033 v1

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 11

Complete if Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit 977-1647
Examiner Name Unassigned - JSC/HCS
Attorney Docket Number 15270J-004752US

NOV 05 2001

RECEIVED

RECEIVED
SEP 26 2001
TC 1700

58	PCT	99/27944	A1		06-10-1999	
59	PCT	99/27911	A1		06-10-1999	
203	PCT	99/00150	A2		01-07-1999	
80	PCT	98/44955	A1		10-15-1998	
61	PCT	98/07850	A2		02-26-1998	
202	PCT	97/21728	A1		06-19-1997	
82	PCT	97/17613	A1		05-15-1997	
63	PCT	96/39178	A1		12-12-1996	
208	PCT	96/28471	A1		09-19-1996	
64	PCT	96/25435	A1		08-22-1996	
65	PCT	96/18900	A1		06-20-1996	
66	PCT	95/31996	A1		11-30-1995	
200	PCT	95/12815	A1		05-11-1995	
67	PCT	95/11984	A1		05-04-1995	
68	PCT	95/11311	A1		04-27-1995	
69	PCT	95/05853	A1		03-02-1995	
70	PCT	95/04151	A2		02-08-1995	
201	PCT	94/28412	A1		12-08-1994	
71	PCT	94/03615	A1		02-17-1994	
72	PCT	94/01772	A1		01-20-1994	
73	PCT	93/21950	A1		11-11-1993	
74	PCT	93/18724	A1		09-02-1993	
75	PCT	93/15760	A1		08-19-1993	
76	PCT	93/14200	A1		07-22-1993	
205	PCT	93/04194	A1		03-04-1993	
77	PCT	93/02189	A1		02-04-1993	
78	PCT	92/13069	A1		08-06-1992	
79	PCT	92/06708	A1		04-30-1992	
80	PCT	92/06187	A1		04-16-1992	
81	PCT	91/19810	A1		12-26-1991	
82	PCT	91/18819	A1		11-14-1991	
83	PCT	91/12816	A1		09-05-1991	
84	PCT	91/08760	A1		06-27-1991	
85	PCT	90/12871	A1		11-01-1990	
86	PCT	90/12870	A1		11-01-1990	
87	PCT	89/01343	A1		02-23-1989	
88	PCT	89/06242	A1		07-13-1989	
89	PCT	89/06689	A1		07-27-1989	
90	PCT	89/03687	A1		05-05-1989	

Examiner
Signature

[Signature]

Date
Considered

12-8-02

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ See attached Kinds of U.S. Patent Documents. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3169033 v1

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 11

Complete if Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit 1771/147
Examiner Name Unassigned Nichols
Attorney Docket Number 15270J-004752US

91	PCT	88/10120	A1		12-29-1988		
92	GB	2 220 211	A		01-04-1990		
93	GB	2 335 192	A		09-15-1999		



RECEIVED
SEP 26 2001
TC 1700

Examiner Signature	<i>Schenk</i>	Date Considered	12-5-02
--------------------	---------------	-----------------	---------

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3169033 v1

Please type a plus sign (+) inside this box



PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,961
		Filing Date	November 28, 2001
		First Named Inventor	Schenk, Dale B.
		Group Art Unit	1774 1647
		Examiner Name	Unassigned
		Attorney Docket Number	15270J-004752US
Sheet	5	of	11

RECEIVED
SEP 26 2001
1700

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	94	ANDERSEN et al., "Do nonsteroidal anti-inflammatory drugs decrease the risk for Alzheimer's disease?," <i>Neurology</i> , 45:1441-1445 (1995).	<input type="checkbox"/>
	95	Associated Press, "Immune cells may promote Alzheimer's, a study finds," <i>The Boston Globe</i> (4/13/95).	<input type="checkbox"/>
	96	BAUER et al., "Interleukin-6 and α-2-macroglobulin indicate an acute-phase state in Alzheimer's disease cortices," <i>FEBS Letters</i> , 285(1):111-114 (1991).	<input type="checkbox"/>
	204	BERCOVICI et al., "Chronic Intravenous Injections of Antigen Induce and Maintain Tolerance in T Cell Receptor-Transgenic Mice," <i>Eur. J. Immunol.</i> , 29:345-354 (1999).	<input type="checkbox"/>
	212	BICKEL et al., "Site Protected, Cationized Monoclonal Antibody Against Beta Amyloid as a Potential Diagnostic Imaging Technique for Alzheimer's Diseases," <i>Soc. for Neuroscience Abstracts</i> 18:764 (1992).	<input type="checkbox"/>
	176	BARD et al., "Peripherally administered antibodies against amyloid β-peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nature Medicine</i> , 6(8):915-919 (2000).	<input type="checkbox"/>
	97	BLASS, John P., "Immunologic Treatment of Alzheimer's Disease," <i>New England J. Medicine</i> , 341(22):1694 (1999).	<input type="checkbox"/>
	98	BODMER et al., "Transforming Growth Factor-Beta Bound to Soluble Derivatives of the Beta Amyloid Precursor Protein of Alzheimer's Disease," <i>Biochem. Biophys. Res. Comm.</i> , 171(2):890-897 (1990).	<input type="checkbox"/>
	99	BORCHELT et al., "Accelerated Amyloid Deposition in the Brains of Transgenic Mice Coexpressing Mutant Presenilin 1 and Amyloid Precursor Proteins," <i>Neuron</i> , 19: 939-945 (1997).	<input type="checkbox"/>
	100	BORIS-LAWRIE et al., "Recent advances in retrovirus vector technology," <i>Cur. Opin. Genet. Develop.</i> , 3: 102-109 (1993).	<input type="checkbox"/>
	101	BRICE et al., "Absence of the amyloid precursor protein gene mutation (APP717: Val->Ile) in 85 cases of early onset Alzheimer's disease," <i>J. Neurology, Neurosurg. Psychiatry</i> , 56:112-115 (1993).	<input type="checkbox"/>
	102	CHAO et al., "Transforming Growth Factor-β Protects human Neurons Against β-Amyloid-Induced Injury," <i>Soc. Neurosci. Abstracts</i> , 19:513.7 (1993).	<input type="checkbox"/>
	213	CHEN et al., "An Antibody to β Amyloid Precursor Protein Inhibits Cell-substratum Adhesion in Many Mammalian Cell Types," <i>Neuroscience Letters</i> , 125:223-228 (1991).	<input type="checkbox"/>
	214	DEMATTOIS et al., "Peripheral Anti Aβ Antibody Alters CNS And Plasma Aβ Clearance and Decreases Brain Aβ Burden in a Mouse Model of Alzheimer's Disease," <i>Proc. Natl. Acad. Sci. USA</i> , 10.1073/pnas.151261398 (2001).	<input type="checkbox"/>
	103	DUFF et al., "Mouse model made," <i>Nature</i> , 373: 476-477 (1995).	<input type="checkbox"/>
	104	ELIZAN et al., "Antineurofilament antibodies in a postencephalitic and idiopathic Parkinson's disease," <i>J. Neurol. Sciences</i> , 59:341-347 (1983).	<input type="checkbox"/>

SEP 24 2001
PATENT & TRADEMARK OFFICE

RECEIVED
NOV 05 2001
TECH CENTER 1600/2900

Examiner Signature		Date Considered	12-5-02
--------------------	--	-----------------	---------

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3169033 v1

Please type a plus sign (+) inside this box



PTO/SB/088 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 11

Complete if Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit 777-1647
Examiner Name Unassigned NICHOLS SEP 4 6 2001
Attorney Docket Number 15270J-004752US

RECEIVED
TO 7700
NOV 05 2001

105	FELSENSTEIN et al., "Processing of the β -amyloid precursor protein carrying the familial, Dutch-type, and a novel recombinant C-terminal mutation," <i>Neuroscience Letters</i> , 152:185-189 (1993).	<input type="checkbox"/>
106	FINCH et al., "Evolutionary Perspectives on Amyloid and Inflammatory Features of Alzheimer Disease," <i>Neurobiology of Aging</i> , 17(5):809-815 (1996).	<input type="checkbox"/>
107	FISHER et al., "Expression of the amyloid precursor protein gene in mouse oocytes and embryos," <i>PNAS</i> , 88:1779-1782 (1991).	<input type="checkbox"/>
108	FLANDERS et al., "Altered expression of transforming growth factor- β in Alzheimer's disease," <i>Neurology</i> , 45:1561-1569 (1995).	<input type="checkbox"/>
210	FRIEDLAND et al., "Development of an anti-A β monoclonal antibody for in vivo imaging of amyloid angiopathy in Alzheimer's disease," <i>Mol. Neurology</i> , 9:107-113 (1994).	<input type="checkbox"/>
109	GAMES et al., "Alzheimer-type neuropathology in transgenic mice overexpressing V717F β -amyloid precursor protein," <i>Nature</i> , 373(6514): 523-527 (1995).	<input type="checkbox"/>
215	GAMES et al., "Prevention and Reduction of AD-type Pathology in PDAPP Mice Immunized with A β ₁₋₄₂ ," <i>Annals of the New York Academy of Science</i> 920:274-84 (2000).	<input type="checkbox"/>
110	GANDY et al., "Amyloidogenesis in Alzheimer's disease: some possible therapeutic opportunities," <i>TIPS</i> , 13:108-113 (1992).	<input type="checkbox"/>
111	GASKIN et al., "Human antibodies reactive with beta-amyloid protein in Alzheimer's disease," <i>J. Exp. Med.</i> , 177:1181-1186 (1993).	<input type="checkbox"/>
112	GLENN et al., "Skin immunization made possible by cholera toxin," <i>Nature</i> , 391: 851 (1988).	<input type="checkbox"/>
113	GLENNER et al., "Alzheimer's Disease: Initial Report of the Purification and Characterization of a Novel Cerebrovascular Amyloid Protein," <i>Biochemical and Biophysical Research Communications</i> , 120(3): 885-890 (1994).	<input type="checkbox"/>
114	GLENNER et al., "Alzheimer's Disease and Down's Syndrome: Sharing of A Unique Cerebrovascular Amyloid Fibril Protein," <i>Biochemical and Biophysical Research Communications</i> , 122(3): 1131-1135 (1984).	<input type="checkbox"/>
115	GOATE et al., "Segregation of a missense mutation in the amyloid precursor protein gene with familial Alzheimer's disease," <i>Nature</i> , 349:704-706 (1991).	<input type="checkbox"/>
116	GOZES et al., "Neuroprotective strategy for Alzheimer disease: Intranasal administration of a fatty neuropeptide," <i>PNAS</i> , 93:427-432 (1996).	<input type="checkbox"/>
190	GRAVINA et al., "Amyloid β Protein (A β) in Alzheimer's Disease," <i>J. Biol. Chem.</i> , 270(13):7013-7018 (1995).	<input type="checkbox"/>
117	GUPTA et al., "Differences in the immunogenicity of native and formalized cross reacting material (CRM197) of diphtheria toxin in mice and guinea pigs and their implications on the development and control of diphtheria vaccine based on CRMs," <i>Vaccine</i> , 15(12/13): 1341-1343 (1997).	<input type="checkbox"/>
118	HAGA et al., "Synthetic Alzheimer amyloid β /A4 peptides enhance production of complement C3 component by cultured microglial cells," <i>Brain Research</i> , 601:88-94 (1993).	<input type="checkbox"/>
119	HANES et al., "New advances in microsphere-based single-dose vaccines," <i>Advanced Drug Delivery Reviews</i> , 28: 97-119 (1997).	<input type="checkbox"/>

SEP 24 2001
PATENT & TRADEMARK OFFICE

RECEIVED
NOV 05 2001

Examiner Signature *[Signature]* Date Considered 12-8-02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3169033 v1

Please type a plus sign (+) inside this box



PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

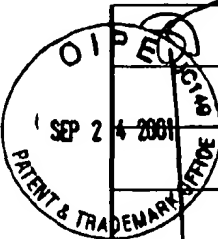
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 7 of 11

Complete if Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit ~~1774-1647~~
Examiner Name Unassigned MICHAEL
Attorney Docket Number 15270J-004752US



RECEIVED
NOV 05 2001
TECH CENTER 1609/2800
TC 1700
SEP 26 2001

120	HARDY, "Amyloid, the presenilins and Alzheimer's disease," <i>TINS</i> , 20(4): 154-159 (1997).	<input type="checkbox"/>
121	HARDY, John, "New Insights into the Genetics of Alzheimer's Disease," <i>Annals of Med.</i> , 28:255-258 (1996).	<input type="checkbox"/>
193	HARRINGTON et al., "Characterisation of an epitope specific to the neuron-specific isoform of human enolase recognised by a monoclonal antibody raised against a synthetic peptide corresponding to the C-terminus of β /A4-protein," <i>Biochimica Biophysica Acta</i> , 1158:120-128 (1993).	<input type="checkbox"/>
177	HELMUTH, L., "Further Progress on a β -Amyloid Vaccine," <i>Science</i> , 289:375 (2000).	<input type="checkbox"/>
122	HSIAO et al., "Correlative Memory Deficits, A β Elevation, and Amyloid Plaques in Transgenic Mice," <i>Science</i> , 274: 99-102 (1996).	<input type="checkbox"/>
123	HUBERMAN et al., "Correlation of cytokine secretion by mononuclear cells of Alzheimer's patients and their disease stage," <i>J. Neuroimmunology</i> , 52:147-152 (1994).	<input type="checkbox"/>
124	HYMAN et al., "Molecular Epidemiology of Alzheimer's Disease," <i>N. E. J. Medicine</i> , 333(19):1283-1284 (1995).	<input type="checkbox"/>
125	ITAGAKI et al., "Relationship of microglia and astrocytes to amyloid deposits of Alzheimer's disease," <i>J. Neuroimmunology</i> , 24:173-182 (1989).	<input type="checkbox"/>
192	IWATSUBO et al., "Visualization of A β 42(43) and A β 40 in Senile Plaques with End-Specific A β Monoclonals: Evidence That an Initially Deposited Species Is A β 42(43)," <i>Neuron</i> , 13:45-53 (1994).	<input type="checkbox"/>
126	JANSEN et al., "Immunotoxins: Hybrid Molecules Combining High Specificity and Potent Cytotoxicity," <i>Immun. Rev.</i> , 62: 185-215 (1982).	<input type="checkbox"/>
216	JOACHIM et al., "Antibodies to Non-beta Regions of the Beta-amyloid Precursor Protein Detect a Subset of Senile Plaques," <i>Am. J. of Pathology</i> 138:373-378 (1991).	<input type="checkbox"/>
127	KALARIA, R. N., "Serum amyloid P and related molecules associated with the acute-phase response in Alzheimer's disease," <i>Res. Immunology</i> , 143:637-641 (1992).	<input type="checkbox"/>
183	KATZAV-GOZANSKY et al., "Effect of monoclonal antibodies in preventing carboxypeptidase A aggregation," <i>Biotechnol. Appl. Biochem.</i> , 23:227-230 (1996).	<input type="checkbox"/>
128	KAWABATA et al., "Amyloid plaques, neurofibrillary tangles and neuronal loss in brains of transgenic mice overexpressing a C-terminal fragment of human amyloid precursor protein," <i>Nature</i> , 354:476-478 (1991).	<input type="checkbox"/>
195	KONIG et al., "Development and Characterization of a Monoclonal Antibody 369.2B Specific for the Carboxyl-Terminus of the A β 4 Peptide," <i>Annals of NY Acad. Sci.</i> , 777:344-355 (1996).	<input type="checkbox"/>
129	LAMPERT-ETCHELLS et al., "Regional Localization of Cells Containing Complement C1q and C4 mRNAs in the Frontal Cortex During Alzheimer's Disease," <i>Neurodegeneration</i> , 2:111-121 (1993).	<input type="checkbox"/>
130	LANGER, "New Methods of Drug Delivery," <i>Science</i> , 249: 1527-1532 (1990).	<input type="checkbox"/>
131	LANNFELT et al., "Alzheimer's disease: molecular genetics and transgenic animal models," <i>Behavioural Brain Res.</i> , 57:207-213 (1993).	<input type="checkbox"/>

Examiner Signature	<i>[Signature]</i>	Date Considered	12-5-02
--------------------	--------------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3169033 v1

Please type a plus sign (+) inside this box

+

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

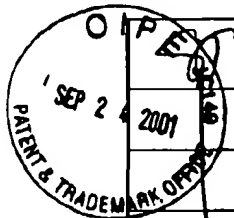
INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 8 of 11

Complete If Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit ~~ATTN: KAFF~~
Examiner Name Unassigned NICHOLSON
Attorney Docket Number 15270J-004752US



132	LEMERE et al., "Mucosal Administration of Aβ Peptide Decreases Cerebral Amyloid Burden In Pd-App Transgenic Mice," <u>Society for Neuroscience Abstracts</u> , vol. 25, part 1, Abstract 519.6, 29th Annual Meeting, (October 23-28, 1999).
133	LIVINGSTON et al., "The Hepatitis B Virus-Specific CTL Responses Induced In Humans by Lipopeptide Vaccination Are Comparable to Those Elicited by Acute Viral Infection," <u>J. Immunol.</u> , 159: 1383-1392 (1997).
134	LOPEZ et al., "Serum auto-antibodies in Alzheimer's disease," <u>Acta Neurol. Scand.</u> , 84:441-444 (1991).
218	MAJOCHA et al., "Development of a Monoclonal Antibody Specific for β/A4 Amyloid in Alzheimer's Disease Brain for Application to In Vitro Imaging of Amyloid Angiopathy," <u>The J. of Nuclear Med.</u> , 33:2184-2189 (1992).
217	MASTERS et al., "Amyloid Plaque core protein in Alzheimer Disease and Down Syndrome," <u>Proc. Natl. Acad. Sci. USA</u> , 82:4245-4249 (1985).
135	MCGEE et al., "The encapsulation of a model protein in poly (D, L lactide-co-glycolide) microparticles of various sizes: an evaluation of process reproducibility," <u>J. Micro. Encap.</u> , 14(2): 197-210 (1997).
136	MEDA et al., "Activation of microglial cells by β-amyloid protein and Interferon-γ," <u>Nature</u> , 374:647-650 (1995).
137	MILLER et al., "Antigen-driven Bystander Suppression after Oral Administration of Antigens," <u>J. Exp. Med.</u> , 174:791-798 (1991).
206	MORI et al., "Mass Spectrometry of Purified Amyloid β Protein in Alzheimer's Disease," <u>J. Biol. Chem.</u> , 267(24):17082-17088 (1992).
191	MURPHY et al., "Development of a Monoclonal Antibody Specific for the COOH-Terminal of β-Amyloid 1-42 and Its Immunohistochemical Reactivity in Alzheimer's Disease and Related Disorders," <u>Am. J. Pathology</u> , 144(5):1082-1088 (1994).
138	NATHANSON et al., "Bovine Spongiform Encephalopathy (BSE): Causes and Consequences of a Common Source Epidemic," <u>Am. J. Epidemiol.</u> , 145(11): 959-969 (June 1, 1997).
139	New York Times National, "Anti-Inflammatory Drugs May Impede Alzheimer's," (2/20/94).
140	PARESCCE et al., "Microglial cells influence aggregates of the Alzheimer's disease amyloid beta-protein via a scavenger receptor," <u>Neuron</u> , 17:553-565 (September 1996).
141	PAUL et al., "Transdermal immunization with large proteins by means of ultra-deformable drug carriers," <u>Eur. J. Immunol.</u> , 25: 3521-3524 (1995).
142	PRIEELS et al., "Synergistic adjuvants for vaccines," <u>Chemical Abstracts</u> , 120(8): pg. 652, column 1, abstract 86406t (1994).
143	QUON et al., "Formation of β-Amyloid protein deposits in brains of transgenic mice," <u>Nature</u> , 352:239-241 (1991).
144	RASO, V.A., Grant application # 1-R43-AG15746-01, (publication data unknown)
145	RASO, "Immunotherapy of Alzheimer's Disease," <u>Immunotherapy Weekly</u> , Abstract (April 2, 1998).

RECEIVED
NOV 05 2001

UNRECORDED

Examiner Signature Schenk Date Considered 12-5-02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3169033 v1

Please type a plus sign (+) inside this box



PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0081
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 9 of 11

Complete if Known

Application Number 09/724,961
Filing Date November 28, 2001
First Named Inventor Schenk, Dale B.
Group Art Unit 1774 1647
Examiner Name Unassigned NICHOLS
Attorney Docket Number 15270J-004752US

NOV 05 2001

RECEIVED

ENTER 160012900

SEP 26 2001



146	ROGERS et al., "Complement activation by β -amyloid in Alzheimer Disease," <i>PNAS</i> , 89:1-5 (1992).	<input checked="" type="checkbox"/>
147	ROSSOR et al., "Alzheimer's Disease Families with Amyloid Precursor Protein Mutations," <i>Annals of New York Academy of Sciences</i> , 695:198-202 (1993).	<input checked="" type="checkbox"/>
209	RUDINGER, "Characteristics of the Amino Acids as Components of a Peptide Hormone Sequence," in <i>Peptide Hormones</i> , J.A. Parson, ed. University Park Press, Baltimore, pp 1-7 (1976).	<input checked="" type="checkbox"/>
189	SAIDO et al., "Spatial Resolution of Fodrin Proteolysis in Postischemic Brain," <i>J. Biol. Chem.</i> , 268(33):25239-25243 (1993).	<input checked="" type="checkbox"/>
194	SAIDO et al., "Spatial Resolution of the Primary β -Amyloidogenic Process Induced in Postischemic Hippocampus," <i>J. Biol. Chem.</i> , 269(21):15253-15257 (1994).	<input checked="" type="checkbox"/>
178	SCHENK et al., "Therapeutic Approaches Related to Amyloid- β Peptide and Alzheimer's Disease," <i>J. Med. Chem.</i> , 38(21):4141-4154 (1995).	<input checked="" type="checkbox"/>
148	SCHENK et al., "Immunization with amyloid- β attenuates Alzheimer-disease-like pathology in the PDAPP mouse," <i>Nature</i> , 400:173-177 (1999).	<input checked="" type="checkbox"/>
149	SELKOE, D.J., "Imaging Alzheimer's Amyloid," <i>Nat. Biotech.</i> , 18:823-824 (2000).	<input checked="" type="checkbox"/>
150	SELKOE, "Alzheimer's Disease: A Central Role for Amyloid," <i>J. Neuropathol. Exp. Neurol.</i> , 53(5): 438-447 (1994).	<input checked="" type="checkbox"/>
151	SELKOE, "Physiological production of the β -amyloid protein and the mechanism of Alzheimer's disease," <i>Trends in Neurosciences</i> , 16(10): 403-409 (1993).	<input checked="" type="checkbox"/>
152	SELKOE, Dennis J., "Amyloid Protein and Alzheimer's Disease.....," <i>Scientific American</i> , pgs. 68-78 (November, 1991).	<input checked="" type="checkbox"/>
153	SELKOE, Dennis J., "In the Beginning....," <i>Nature</i> , 354:432-433 (1991).	<input checked="" type="checkbox"/>
154	SELKOE, Dennis J., "The Molecular pathology of Alzheimer's Disease," <i>Neuron</i> , 6:487-498 (1991).	<input checked="" type="checkbox"/>
155	SELKOE, Dennis J., "Alzheimer's Disease: Genotypes, Phenotype, and Treatments," <i>Science</i> , 275:830-831 (1997).	<input checked="" type="checkbox"/>
156	SEUBERT et al., "Isolation and quantification of soluble Alzheimer's β -peptide from biological fluids," <i>Nature</i> , 359: 325-327 (1992).	<input checked="" type="checkbox"/>
157	SHIOSAKA, S., "Attempts to make models for Alzheimer's disease," <i>Neuroscience Res.</i> , 13:237-255 (1992).	<input checked="" type="checkbox"/>
158	SMITS et al., "Prion Protein and Scrapie Susceptibility," <i>Vet. Quart.</i> , 19(3): 101-105 (1997).	<input checked="" type="checkbox"/>
159	SOLOMON et al., "Disaggregation of Alzheimer β -amyloid by site-directed mAb," <i>PNAS</i> , 94:4109-4112 (1997).	<input checked="" type="checkbox"/>

Examiner Signature	<i>[Signature]</i>	Date Considered	12-5-02
--------------------	--------------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3169033 v1

Please type a plus sign (+) inside this box

SEP 24 2001

PTO/SB/088 (08-00)

Approved for use through 10/31/2002. OMB 0833-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, respondents are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 10 of 11

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2001
First Named Inventor	Schenk, Dale B.
Group Art Unit	477-1647
Examiner Name	Unassigned - NICHOLS
Attorney Docket Number	15270J-004752US

160	SOLOMON et al., "Monoclonal antibodies inhibit in vitro fibrillar aggregation of the Alzheimer β -amyloid peptide," <i>PNAS</i> , 93:452-455 (1996).	<input checked="" type="checkbox"/>
161	SOLOMON, A., "Pro-Ra (Protein Therapeutics), University of Tennessee Medical Center, (publication date unknown)."	<input checked="" type="checkbox"/>
162	SOLOMON, B., "New Approach Towards Fast Induction of Anti β-Amyloid Peptide Immune Response," Department of Molecular Microbiology & Biotechnology, Tel Aviv University, Ramat Aviv, Tel Aviv, Israel (publication date unknown)."	<input checked="" type="checkbox"/>
162	SOLOMON et al., "Inhibitory effect of monoclonal antibodies on Alzheimer's β -amyloid peptide aggregation," <i>Int. J. Exp. Clin. Invest.</i> , 3:130-133 (1996).	<input checked="" type="checkbox"/>
164	SOLOMON et al., "Thermal Stabilization of Carboxypeptidase A as a Function of PH and Ionic Milieu," <i>Biochem. Mol. Biol. Int.</i> , 43(3):601-611 (1997).	<input checked="" type="checkbox"/>
165	SOLOMON et al., "Modulation of The Catalytic Pathway of Carboxypeptidase A by Conjugation with Polyvinyl Alcohols," <i>Adv. Mol. Cell Biology</i> , 15A:33-45 (1996).	<input checked="" type="checkbox"/>
166	SOLOMON et al., "Activity of monoclonal antibodies in prevention of in vitro aggregation of their antigens," abstract from Department of Molecular Microbiology and Biotechnology, Tel Aviv University, Tel Aviv, Israel (publication date unknown)."	<input checked="" type="checkbox"/>
170	SOUTHWICK et al., "Assessment of Amyloid β protein in Cerebrospinal fluid as an Aid in the Diagnosis of Alzheimer's Disease," <i>J. Neurochemistry</i> , 66:259-265 (1996).	<input checked="" type="checkbox"/>
163	STOUTE et al., "A Preliminary Evaluation of a Recombinant Circumsporozoite Protein Vaccine Against <i>Plasmodium Falciparum</i> Malaria," <i>N. Engl. J. Med.</i> , 336(2): 86-91 (1997).	<input checked="" type="checkbox"/>
164	STURCHLER-PIERRAT et al., "Two amyloid precursor protein transgenic mouse models with Alzheimer disease-like pathology," <i>PNAS</i> , 94: 13287-13292 (1997).	<input checked="" type="checkbox"/>
165	TANAKA et al., "NC-1900, an active fragment analog of arginine vasopressin, improves learning and memory deficits induced by beta-amyloid protein in rats," <i>European J. Pharmacology</i> , 352:135-142 (1998).	<input checked="" type="checkbox"/>
166	TRIEB et al., "Is Alzheimer beta amyloid precursor protein (APP) an autoantigen? Peptides corresponding to parts of the APP sequence stimulate T lymphocytes in normals, but not in patients with Alzheimer's disease," <i>Immunobiology</i> , 191(2-3):114-115 Abstract C.37, (1994).	<input checked="" type="checkbox"/>
167	VAN GOOL et al., "Concentrations of amyloid- β protein in cerebrospinal fluid increase with age in patients free from neurodegenerative disease," <i>Neuroscience Letters</i> , 172:122-124 (1994).	<input checked="" type="checkbox"/>
168	VERBEEK et al., "Accumulation of Intercellular Adhesion Molecule-1 in Senile Plaques in Brain Tissue of patients with Alzheimer's Disease," <i>Amer. Joun. Pathology</i> , 144(1):104-116 (1994).	<input checked="" type="checkbox"/>
169	WALKER et al., "Labeling of Cerebral Amyloid In Vivo with a Monoclonal Antibody," <i>J. Neuropath. Exp. Neurology</i> , 53(4):377-383 (1994).	<input checked="" type="checkbox"/>
180	WEN, G.Y., "Alzheimer's Disease and Risk Factors," <i>J. Food Drug Analysis</i> , 6(2):465-476 (1998).	<input checked="" type="checkbox"/>
170	WENGENACK et al., "Targeting Alzheimer amyloid plaques in vivo," <i>Nature Biotech.</i> , 18:868-874 (2000).	<input checked="" type="checkbox"/>
171	WEINER et al., "ORAL TOLERANCE: Immunologic Mechanisms and Treatment of Animal and Human Organ-Specific Autoimmune Diseases by Oral Administration of Autoantigens," <i>Annu. Rev. Immunol.</i> , 12:809-837 (1994).	<input checked="" type="checkbox"/>

Examiner
Signature

[Signature]

Date
Consider d

12-5-02

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ Applicant is to place a check mark here if English language Translation is attached.

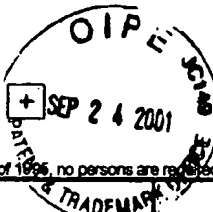
Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3169033 v1

RECEIVED

NOV 05 2001

15270J-004752US

Please type a plus sign (+) inside this box



PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 11 of 11

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2001
First Named Inventor	Schenk, Dale B.
Group Art Unit	1771 1647
Examiner Name	Unassigned PICHOLS
Attorney Docket Number	15270J-004752US

172	WEISSMANN et al., "Bovine spongiform encephalopathy and early onset variant Creutzfeldt-Jakob disease," <u>Curr. Opin. Neurobiol.</u> , 7: 695-700 (1997).
219	WONG et al., "Neuritic Plaques and Cerebrovascular Amyloid in Alzheimer Disease are Antigenically Related," <u>Proc. Natl. Acad. Sci. USA</u> , 82:8729-8732 (1985).
173	WOOD et al., "Amyloid precursor protein processing and A β 42 deposition in a transgenic mouse model of Alzheimer disease," <u>PNAS</u> , 94: 1550-1555 (1997).
174	Human-Immunology & Cancer Program brochure from The University of Tennessee Medical Center/ Graduate School of Medicine, Knoxville, Tennessee (publication date unknown).

RECEIVED
NOV 03 2001
H CENTER 1600/2900
10/11/01
TC 1700
SEP 26 2001

Examiner
Signature

[Signature]

Date
Considered

12-5-02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3169033 v1

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

6

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Group Art Unit	1647
Examiner Name	Turner, Sharon
Attorney Docket Number	15270J-004752US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	287	6,294,171	B2	McMichael	09-25-2001	
	234	6,284,221	B1	Schenk, et al.	09-04-2001	
	300	2001/0018053	A1	McMichael	08-30-2001	
	230	6,282,335	B1	Hsiao et al.	07-17-2001	
	231	6,114,133		Seubert et al.	09-05-2000	
	221	5,989,566		Cobb et al.	11-23-1999	
	284	5,231,170		Averback	07-27-1993	
	442	60/188,604		Chaffour et al.	N/A	
	282	60/169,687		Chen	N/A	
	206	60/184,001		Holtzman et al.	N/A	
	209	60/186,295		Rasmussen et al.	N/A	
	290	60/254,405		Holtzman et al.	N/A	
	307	60/254,408		Holtzman et al.	N/A	
	285	60/444,440		Solomon et al.	N/A	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	243	PCT	01/39796	A2		08-07-2001		
	298	PCT	01/42308	A2		06-14-2001		
	301	PCT	01/82284	A2		03-01-2000		
	294	PCT	01/82801	A2		08-30-2001		
	240	PCT	00/43039	A1		07-27-2000		
	227	PCT	85/11008	A2		04-27-1995		

Examiner Signature

Date

Considered

12-5-02

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3244120 v1

PA3242256 v2

PA 3147648 v21

RECEIVED
SEP 28 2002
TECH CENTER 1600/2900
CONSIDERED

Please type a plus sign (+) inside this box → ☐

PTO/SB/088 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 6

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Group Art Unit	1647
Examiner Name	Turner, Sharon <i>NICHOLS</i>
Attorney Docket Number	15270J-004752US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>ST</i>	228	BARROW, et al., "Solution Conformations and aggregational Properties of Synthetic Amyloid Beta-Peptides of Alzheimer's Disease. Analysis of Circular Dichroism Spectra" <i>J. Mol. Biol.</i> , 225(4): 1075-1093 (1992).
	239	BEASLEY, "Alzheimer's traced to proteins caused by aging," Reuters, April 20, 2001 7:56 PM ET.
	285	CAPUTO et al., "Therapeutic approaches targeted at the amyloid proteins in Alzheimer's disease," <i>Clin. Neuropharm.</i> , 15:414A-414B (1992).
	224	Center for Biologics Evaluation and Research, U.S. Food and Drug Administration, Thimerosal in Vaccines (Mercury in Plasma-Derived Products), web site contents found at: http://www.fda.gov/cber/vaccine/thimerosal.htm , last updated May 18, 2002.
<i>ST</i>	288	CHAPMAN, PAUL F., "Model behavior," <i>Nature</i> , 408:915-916 (2000).
	222	Chemical Abstract database: Abstract of: Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals; <i>Chemical Abstract database: (Publication date unknown)</i> <i>improper format</i>
<i>ST</i>	302	CHUNG et al., "Uptake, Degradation, and Release of Fibrillar and Soluble Forms of Alzheimer's Amyloid β -Peptide by Microglial Cells," <i>J. Biol. Chem.</i> , 274(45):32301-32306 (1999).
	291	COLOMA et al., "Transport Across the Primate Blood-Brain Barrier of a Genetically Engineered Chimeric Monoclonal Antibody to the Human Insulin Receptor," <i>Pharm. Res.</i> , 17:266-274 (2000).
	286	CORDELL, B., " β -Amyloid formation as a potential therapeutic target for Alzheimer's disease," <i>Ann. Rev. Pharmacol. Toxicol.</i> , 34:69-89 (1994).
	287	COSTA et al., "Immunosay for transthyretin variants associated with amyloid neuropathy," <i>Scand. J. Immunol.</i> , 38:177-182 (1993).
<i>ST</i>	293	DALY, et al., "Detection of the membrane-retained carboxy-terminal tail containing polypeptides of the amyloid precursor protein in tissue from Alzheimer's Disease brain," <i>Life Sci.</i> , 63:2121-2131 (1998).
	220	Dialog Derwent: Abstract of WPI-Ace Nov 1997-054436/199706: Stable Vaccine components comprise a macrocyclic lactone, a milbemycin, an avermectin, an antigen, a dispersing agent, an adjuvant, a water sol.-organic solvent and, saline or water. <i>Derwent (Ela 354: Derwent-WPI database: (Publication date unknown))</i> <i>improper format</i>
<i>ST</i>	288	DUMERY et al., " β -Amyloid protein aggregation; its implication in the physiopathology of Alzheimer's disease," <i>Pathol. Biol.</i> , 49:72-85 (2001).
<i>ST</i>	225	Elan, "Elan and AHP Provide an Update on the Phase 2A Clinical Trial of AN-1792," Press Release. (1/28/2002).

Examiner Signature

[Signature]

Date Considered

12-5-02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3244120 v1
PA3242256 v2
PA 3147648 v21

RECEIVED

SEP 03 2002

TECH CENTER 1600/1600
JAN 10 2003
DO NOT DISCARD

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 6

Complete If Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Group Art Unit	1647
Examiner Name	Turner, Sharon <i>NICHOLS</i>
Attorney Docket Number	15270J-004752US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>[Signature]</i>	226	Elan, "Elan and Wyeth Provide Update on Status of Alzheimer's Collaboration," Press Release (3/1/2002).	
	289	ESIRI, "Is an effective immune intervention for Alzheimer's disease in prospect?," <i>Trends in Pharm. Sci.</i> , 22:2-3 (2001).	
	246	FRENKEL et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," <i>Vaccine</i> , 19:2615-2619 (2001).	
	247	FRENKEL et al., "Immunization against Alzheimer's β -amyloid plaques via EFRH phage administration," <i>PNAS USA</i> , 97:11455-11459 (2000).	
	248	FRENKEL et al., "N-terminal EFRH sequence of Alzheimer's β -amyloid peptide represents the epitope of its anti-aggregating antibodies," <i>J. of Neuroimmunology</i> , 88:85-90 (1998).	
	245	FRENKEL et al., "High affinity binding of monoclonal antibodies to the sequential epitope EFRH of β -amyloid peptide is essential for modulation of fibrillar aggregation," <i>J. of Neuroimmunology</i> , 95:136-142 (1999).	
	244	FRENKEL, et al., "Modulation of Alzheimer's β -amyloid neurotoxicity by site-directed single chain antibody," <i>J. of Neuroimmunology</i> , 106:23-31 (2000).	
	249	FRIEDLAND, et al., "Neuroimaging of Vessel Amyloid in Alzheimer's Disease," in <i>Cerebrovascular Pathology in Alzheimer's Disease</i> , eds. de la Torre and Hachinski, New York Academy of Sciences, New York, New York (1997).	
	251	GARDAELLA et al., "Intact Alzheimer amyloid precursor protein (APP) is present in platelet membranes and is encoded by platelet mRNA," <i>Biochem. Biophys. Res. Comm.</i> , 173:1292-1298 (1990).	
	252	GEDDES, "N-terminus truncated β -amyloid peptides and C-terminus truncated secreted forms of amyloid precursor protein: distinct roles in the pathogenesis of Alzheimer's disease," <i>Neurobiology of Aging</i> , 20:75-79 (1999).	
	253	GIULIAN, et al., "The HHQK Domain of β -Amyloid Provides a Structural Basis for the Immunopathology of Alzheimer's Disease," <i>Journal of Biological Chem.</i> , 273:29719-29726 (1998).	
	303	GONZALES-FERNANDEZ et al., "Low antigen dose favors selection of somatic mutants with hallmarks of antibody affinity maturation," <i>Immunology</i> , 93:149-153 (1998).	
	237	GORTNER, <i>Outlines of Biochemistry</i> , pp. 322-323, John Wiley & Sons, Inc., New York (1949).	
	254	GRUBECK-LOEBENSTEIN, et al., "Immunization with β -amyloid: could T-cell activation have a harmful effect?," <i>TINS</i> , 23:114 (2000).	
	241	HAASS et al., "Amyloid beta-peptide is produced by cultured cells during normal metabolism," <i>Nature</i> , 359(6393):322-5 (1992).	

Examiner
Signature

Date
Considered

12-5-02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3244120 v1

PA3242256 v2

PA 3147648 v 21

SEP 03 2002

RECEIVED

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4

of

6

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Group Art Unit	1647
Examiner Name	Turner, Sharon NICHOLS
Attorney Docket Number	15270J-004752US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
[Signature]	255	HARIGAYA, et al., "Modified amyloid β protein ending at 42 or 40 with different solubility accumulates in the brain of Alzheimer's disease," <i>Biochem. Biophys. Res. Comm.</i> , 211:1015-1022 (1995).	TECH CENTER 1600/2000
	229	HAZAMA, et al., "Intranasal Immunization Against Herpes Simplex Virus Infection by Using a Recombinant Glycoprotein D Fused With Immunomodulating Proteins, the B Subunit of Escherichia Coli Heat-Labile Enterotoxin and Interleukin-2," <i>Immunology</i> , Vol. 78: 643-649 (1993).	
	238	HILBICH et al., "Human and rodent sequence analogs of Alzheimer's amyloid β A4 share similar properties and can be solubilized in buffers of pH 7.4," <i>Eur. J. Biochem.</i> , 201:61-69 (1991).	
	256	IKEDA, et al., "Immunogold labeling of cerebrovascular and neuritic plaque amyloid fibrils in Alzheimer's disease with an anti- β protein monoclonal antibody," <i>Lab. Invest.</i> , 57:448-449 (1987).	
	257	JEN, et al., "Preparation and purification of antisera against different regions or isoforms of b-amyloid precursor protein," <i>Brain Research Protocols</i> , 2:23-30 (1997).	
	258	KIDA, et al., "Early amyloid- β deposits show different immunoreactivity to the amino- and carboxy-terminal regions of b-peptide in Alzheimer's disease and Down's syndrome brain," <i>Neuroscience Letters</i> , 193:105-108 (1995).	
	259	LANSBURY, PETER T., "Inhibition of amyloid formation: a strategy to delay the onset of Alzheimer's disease," <i>Curr. Ops. in Chemical Biology</i> , 1:260-267 (1997).	
	260	LEMERE, et al., "Nasal A β treatment induces anti-A β antibody production and decreases cerebral amyloid burden in PD-APP mice," <i>Annals of the NY Acad. Sci.</i> , 920:328-331 (2000).	
	261	MAK, et al., "Polyclonals to b-amyloid (1-42) identify most plaque and vascular deposits in Alzheimer cortex, but not striatum," <i>Brain Research</i> , 687:138-142 (1994).	
	263	MANN, et al., "Amyloid β protein (A β) deposition in chromosome 14-linked Alzheimer's disease: Predominance of A β _{42/43} ," <i>Annals of Neurology</i> , 40:149-156 (1996).	
	262	MANN, et al., "The extent of amyloid deposition in brain in patients with Down's syndrome does not depend upon the apolipoprotein E genotype," <i>Neuroscience Letters</i> , 196:105-108 (1995).	
	264	McGeer, et al., "Immunohistochemical localization of beta-amyloid precursor protein sequences in Alzheimer and normal brain tissue by light and electron microscopy," <i>J. of Neuroscience Res.</i> , 31:428-442 (1992).	
	238	MCNEAL et al., "Stimulation of local immunity and protection in mice by intramuscular immunization with triple- or double-layered rotavirus particles and QS-21," <i>Virology</i> , 243:158-166 (1998).	
	265	Mena, et al., "Monitoring pathological assembly of tau and β -amyloid proteins in Alzheimer's disease," <i>Acta Neuropathol.</i> , 89:50-56 (1995).	
[Signature]	233	MORRIS, et al., "The Consortium to Establish a registry for Alzheimer's Disease (CERAD)," <i>Neurology</i> , 39:1159-65 (1989).	

Examiner
Signature

[Signature]

Date
Considered

12-5-02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3244120 v1

PA3242256 v2

PA 3147648 v 21

RECEIVED

SEP 03 2002

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 6

Complete If Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Group Art Unit	1647
Examiner Name	Tanner, Sharon NICHOLS
Attorney Docket Number	15270J-004752US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JA	250	NAKAMURA et al., "Histopathological studies on senile plaques and cerebral amyloid angiopathy in aged cynomolgus monkeys," <i>Exp. Anim.</i> , 43:711-718 (1995).	
	288	NAKAMURA, et al., "Carboxyl end-specific monoclonal antibodies to amyloid β protein (A β) subtypes (A β 40 and A β 42(43)) differentiate Ab in senile plaques and amyloid angiopathy in brains of aged cynomolgus monkeys," <i>Neuroscience Letters</i> , 201:151-154 (1995).	
	281	NAKAYAMA et al., "Histopathological studies of senile plaques and cerebral amyloidosis in cynomolgus monkeys," <i>J. of Med. Primatology</i> , 27:244-252 (1998).	
	235	NEWCOMBE and COHEN, "Solubility characteristics of isolated amyloid fibrils," <i>Biochim. Biophys. Acta</i> , 104:480-486 (1965).	
SF	280	PARDRIDGE et al., "Chimeric peptides as a vehicle for peptide pharmaceutical delivery through the blood-brain barrier," <i>Biochem. Biophys. Res. Comm.</i> , 148:307-313 (1987).	
	232	PETERSON, et al., "Recombinant Antibodies: Alternative Strategies for Developing and Manipulating Murine-Derived Monoclonal Antibodies," <i>Laboratory Animal Science</i> , 46(1):8-14 (1998).	
	289	PHILIPPE, et al., "Generation of a monoclonal antibody to the carboxy-terminal domain of tau by immunization with the amino-terminal domain of the amyloid precursor protein," <i>J. of Neuroscience Res.</i> , 48:709-719 (1996).	
	304	ROSSO, V.A., Grant application #1 R43 AG 5748-01 (non-retracted version), "Immunotherapy of Alzheimer's Disease" (publication date unknown). improper format	
SF	279	SAITO et al., "Vector-mediated delivery of ¹²⁵ I-labeled β -amyloid peptide Ab ¹⁻⁴⁰ through the blood-brain barrier and binding to Alzheimer disease amyloid of the A β ¹⁻⁴⁰ vector complex," <i>PNAS USA</i> , 92:10227-10231 (1995).	
	278	SAITOH, N. and K. IMAI, "Immunological analysis of Alzheimer's disease using anti- β -protein monoclonal antibodies," <i>Sepporo Med. J.</i> , 60:309-320 (1991).	
	277	SASAKI et al., "Human choroid plexus is an uniquely involved area of the brain in amyloidosis: a histochemical, immunohistochemical and ultrastructural study," <i>Brain Res.</i> , 755:193-201 (1997).	
	270	SCHENK, et al., " β -peptide immunization," <i>Arch. Neurol.</i> , 57:934-936 (2000).	
SF	271	ST. GEORGE-HYSLOP, PETER H. and DAVID A. WESTAWAY, "Antibody clears senile plaques," <i>Nature</i> , 40:116-117 (1999).	
	272	SZENDREI, et al., "The effects of aspartic acid-bond isomerization on <i>in vitro</i> properties of the amyloid β -peptide as modeled with N-terminal decapeptide fragments," <i>Int. J. Peptide Protein Res.</i> , 47:289-298 (1996).	
	273	THORSETT, E.D. and L.H. LATIMER, "Therapeutic approaches to Alzheimer's disease," <i>Curr. Op. In Chem. Biology</i> , 4:377-382 (2000).	

Examiner Signature

[Handwritten Signature]

Date Considered

12-5-02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3244120 v1
PA3242256 v2
PA 3147648 v 21

RECEIVED

SEP 03 2002

15270J-004752US
CD (22221590)

Please type a plus sign (+) inside this box

+

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6

of 6

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Group Art Unit	1647
Examiner Name	Turner, Sharon <i>NICHOLS</i>
Attorney Docket Number	15270J-004752US

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>SO</i>	276	TJERNBERG et al., "Arrest of β -amyloid fibril formation by a pentapeptide ligand," <i>Journal of Biological Chemistry</i> , 271:8545-8548 (1996).	1
<i>SO</i>	274	WEINER et al., "Nasal administration of amyloid- β peptide decreases cerebral amyloid burden in a mouse model of Alzheimer's disease," <i>Annals of Neurology</i> , 48:567-579 (2000).	1
	223	Wisconsin Alumni Research Foundation, "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals", U.S. Govt. Res. Develop. Rep. 70(24): 69. (Publication date unknown) <i>improper format</i>	1
<i>SO</i>	275	WU, et al., "Drug targeting of a peptide radiopharmaceutical through the primate blood-brain barrier in vivo with a monoclonal antibody to the human Insulin receptor," <i>J. Clin. Invest.</i> , 100:1804-1812 (1997).	1
	292	YAMAGUCHI et al., Diffuse plaques associated with astroglial amyloid β protein, possibly showing a disappearing stage of senile plaques," <i>Acta Neuropathol.</i> , 95:217-222 (1998).	1
<i>SO</i>	290	YOUNKIN, "Amyloid β vaccination: reduced plaques and improved cognition," <i>Nature Medicine</i> , 7:18-19 (2001).	1

TECH CENTER 1600/2900

SEP 03 2002

RECEIVED

(CONSIDERED); DO NOT PRINT.

Examiner
Signature

Shen

Date
Considered

12-5-02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3244120 v1

PA3242256 v2

PA 3147648 v 21

#15

PTO/3508A (10-01)

Approved for use through 10/31/2002. OMB 0551-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 13

Complete if Known

Application Number	09/724,881
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner Nichols
Attorney Docket Number	15270J-004752US

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CS	326	2002/0136718 A1	09-28-2002	Raso	
	325	2001/0102261 A1	08-01-2002	Raso	
	308	6,417,178 B1	07-09-2002	Kunk et al.	
	267	6,294,171 B2	08-25-2001	McMichael	
	234	6,284,221 B1	09-04-2001	Schenk, et al.	
	300	2001/0018053 A1	08-30-2001	McMichael	
	230	6,262,335 B1	07-17-2001	Hslao et al.	
	305	09/724,842	11-28-2000	Chalifour et al.	
	231	6,114,133	08-05-2000	Seubert et al.	
	221	5,989,568	11-23-1999	Cobb et al.	
	283	09/441,140	11-16-1999	Solomon et al.	
	321	5,837,672	11-17-1998	Schenk et al.	
	320	5,593,848	01-14-1997	Schenk et al.	
	284	5,231,170	07-27-1993	Averback	
	242	60/168,594	N/A	Chalifour et al.	
	282	60/160,687	N/A	Orain	
	295	60/184,601	N/A	Holtzman et al.	
	298	60/254,465	N/A	Holtzman et al.	
	297	60/254,498	N/A	Holtzman et al.	
	299	60/166,295	N/A	Rasmussen et al.	

CONSIDERED: DO NOT PRINT

Examiner Signature	<i>G. M. [Signature]</i>	Date Considered	4/29/2003
--------------------	--------------------------	-----------------	-----------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patent Examination, Washington, DC 20231.

PTO/BB/03A (10-01)

Approved for use through 10/31/2002. OMB 0651-0081
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 13

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner - NOIC HOLD
Attorney Docket Number	15270J-004752US

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
GD	294	WO	01/62801	A2	08-30-2001			
	301	WO	01/62284	A2	03-01-2000			
	298	WO	01/42306	A2	06-14-2001			
	243	WO	01/39796	A2	06-07-2001			
	322	WO	00/72880	A2, A3	12-07-2000			
	323	WO	00/72876	A2, A3	12-07-2000			
	324	WO	00/72870	A1	12-07-2000			
	240	WO	00/43039	A1	07-27-2000			
	331	WO	99/08545	A2	11-02-1999			
GD	227	WO	95/11008	A2	04-27-1995			

Examiner
Signature

g. n. d.

Date
Considered

4/29/2003

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for

PTO/SB/02B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 12

Complete If Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004762US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
GW	228	BARROW, et al., "Solution Conformations and aggregational Properties of Synthetic Amyloid Beta-Peptides of Alzheimer's Disease. Analysis of Circular Dichroism Spectra" <u>J. Mol. Biol.</u> , 225(4): 1075-1093 (1992).	
	239	BEASLEY, "Alzheimer's traced to proteins caused by aging." Reuters, April 20, 2001 7:56 PM ET.	
	327	CAMERON, "Recent Advances in Transgenic Technology," <u>Molecular Biotechnology</u> , 7:253-265 (1997).	
GW	285	CAPUTO et al., "Therapeutic approaches targeted at the amyloid proteins in Alzheimer's disease." <u>Clin. Neuropharm.</u> , 15:414A-414B (1992).	
	224	Center for Biologics Evaluation and Research, U.S. Food and Drug Administration, Thimerosal in Vaccines (Mercury in Plasma-Derived Products), web site contents found at http://www.fda.gov/cber/vaccine/thimerosal.htm , last updated May 16, 2002.	
GW	268	CHAPMAN, PAUL F., "Model behavior," <u>Nature</u> , 408:915-916 (2000).	
GW	222	Chemical Abstract database, Abstract of "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals," Chemical Abstract database. (Publication date unknown).	

Examiner Signature	<i>[Signature]</i>	Date Considered	4/29/2003
--------------------	--------------------	-----------------	-----------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3284621 v1

CONSIDERED; DO NOT PRINT

PTO/SB/05B (10-01)

Approved for use through 10/31/2002. OMB 0501-0031

U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 4 of 13

Complete if Known

Application Number	09/724,951
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner Nichols
Attorney Docket Number	16270J-004752US

CSN	307	CHEN, et al. A learning deficit related to age and beta-amyloid plaques in a mouse model of Alzheimer's disease. <i>Nature</i> . 408(6815):975-9 (2000).
	332	CHEN, et al.; "Neurodegenerative Alzheimer-like pathology in PDAPP, 717V→F transgenic mice," <i>Progress in Brain Research</i> , Van Leeuwen et al. Eds, 117:327-337 (1998).
	302	CHUNG et al. "Uptake, Degradation, and Release of Fibrillar and Soluble Forms of Alzheimer's Amyloid β -Peptide by Microglial Cells," <i>J. Biol. Chem.</i> , 274(45):32301-32308 (1999).
	291	COLOMA et al., "Transport Across the Primate Blood-Brain Barrier of a Genetically Engineered Chimeric Monoclonal Antibody to the Human Insulin Receptor," <i>Pharm. Res.</i> , 17:266-274 (2000).
	333	CONWAY et al., "Acceleration of oligomerization, not fibrillization, is a shared property of both α -synuclein mutations linked to early-onset Parkinson's disease: Implications for pathogenesis and therapy," <i>PNAS</i> , 97(2):571-576 (2000)
	286	CORDELL; B., " β -Amyloid formation as a potential therapeutic target for Alzheimer's disease," <i>Ann. Rev. Pharmacol. Toxicol.</i> , 34:69-89 (1994).
↓	287	COSTA et al., "Immunoassay for transthyretin variants associated with amyloid neuropathy," <i>Scand. J. Immunol.</i> , 38:177-182 (1993).
CSN	293	DALY, et al., "Detection of the membrane-retained carboxy-terminal tail containing polypeptides of the amyloid precursor protein in tissue from Alzheimer's Disease brain," <i>Life Sci.</i> , 63:2121-2131 (1998).

Examiner
Signature

L. Nichols

Date
Considered

4/29/2003

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 808. Draw line through citation if not in conformance and not considered. Include copies of this form with next communication to applicant.

Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3284621 v1

PTO/BB/083 (10-01)
 Approved for use through 10/31/2002. OMB 0651-0031
 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 5

of 13

Complete If Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner
Attorney Docket Number	15270J-004752US

220	Dialog/Derwent, Abstract of WPI Acc No. 1997-054436/199706: Stable vaccine compns. comprise a macrocyclic lactone, a milbemycin, an avermectin, an antigen, a dispersing agent, an adjuvant, a water sol. organic solvent and saline or water. Derwent File 364: Derwent WPI database. (Publication date unknown.)
318	DU, et al. Reduced levels of amyloid beta-peptide antibody in Alzheimer disease. <i>Neurology</i> . 57(5):801-5 (2001).
288	DUMERY et al., "β-Amyloid protein aggregation: its implication in the physiopathology of Alzheimer's disease," <i>Pathol. Biol.</i> , 49:72-88 (2001).
225	Elan, "Elan and AHP Provide an Update on the Phase 2A Clinical Trial of AN-1792," Press Release. (1/28/2002).
226	Elan, "Elan and Wyeth Provide Update on Status of Alzheimer's Collaboration," Press Release (3/1/2002)
289	ESIRI, "Is an effective immune intervention for Alzheimer's disease in prospect?" <i>Trends in Pharm. Sci.</i> , 22:2-3 (2001).
328	FELSENSTEIN et al., "Transgenic Rat and In-Vitro Studies of B-Amyloid Precursor Protein Processing," <i>Alzheimer's and Parkinson's Diseases</i> , Hanin et al. Ed., pp 401-409, Plenum Press, New York, (1996).
246	FRENKEL et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," <i>Vaccine</i> , 19:2615-2619 (2001).
245	FRENKEL et al., "High affinity binding of monoclonal antibodies to the sequential epitope EFRH of β-amyloid peptide is essential for modulation of fibrillar aggregation," <i>J. of Neuroimmunology</i> , 95:136-142 (1999).

Examiner
Signature

Date
Considered

4/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

* Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3264821 v1

NOT
 CONSIDERED TO NOT
 PRINT.

PTO/82/613 (10-01)

Approved for use through 10/31/2002. OMB 0651-0001
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 6 of 13

Complete If Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004752US

247	FRENKEL et al., "Immunization against Alzheimer's β -amyloid plaques via EFRH phage administration," <u>PNAS USA</u> , 97:11455-11459 (2000).
248	FRENKEL et al., "N-terminal EFRH sequence of Alzheimer's β -amyloid peptide represents the epitope of its anti-aggregating antibodies," <u>J. of Neuroimmunology</u> , 88:85-90 (1998).
244	FRENKEL, et al., "Modulation of Alzheimer's β -amyloid neurotoxicity by site-directed single chain antibody," <u>J. of Neuroimmunology</u> , 106:23-31 (2000).
249	FRIEDLAND, et al., "Neuroimaging of Vessel Amyloid in Alzheimer's Disease," in <u>Cerebrovascular Pathology in Alzheimer's Disease</u> , eds. de la Torre and Hachinski, New York Academy of Sciences, New York, New York (1997).
251	GARDELLA et al., "Intact Alzheimer amyloid precursor protein (APP) is present in platelet membranes and is encoded by platelet mRNA," <u>Biochem. Biophys. Res. Comm.</u> , 173:1292-1296 (1990).
252	GEDDES, "N-terminus truncated β -amyloid peptides and C-terminus truncated secreted forms of amyloid precursor protein: distinct roles in the pathogenesis of Alzheimer's disease," <u>Neurobiology of Aging</u> , 20:75-79 (1999).
253	GIULIAN, et al., "The-HHQQ Domain of b-Amyloid Provides a Structural Basis for the Immunopathology of Alzheimer's Disease," <u>Journal of Biological Chem.</u> , 273:29719-29726 (1998).
303	GONZALES-FERNÁNDEZ et al., "Low antigen dose favors selection of somatic mutants with hallmarks of antibody affinity maturation," <u>Immunology</u> , 93:148-153 (1998).

Examiner
Signature

S. Nichols

Date
Considered

4/29/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3254621 v1

PTO/SB/01B (10-01)

Approved for use through 10/31/2002. OMB 0531-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 7 of 13

Complete if Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Sharon Turner Nichols
Attorney Docket Number	15270J-004752US

CTW	237	GORTNER, <u>Outlines of Biochemistry</u> , pp. 322-323, John Wiley & Sons, Inc., New York (1949).
	254	GRUBECK-LOEBENSTEIN, et al., "Immunization with β -amyloid: could T-cell activation have a harmful effect?", <u>TISS</u> , 23:114 (2000).
	241	HAASS et al. "Amyloid beta-peptide is produced by cultured cells during normal metabolism," <u>Nature</u> , 359(8393):322-5 (1992).
	255	HARIGAYA, et al., "Modified amyloid β protein ending at 42 or 40 with different solubility accumulates in the brain of Alzheimer's disease," <u>Biochem. Biophys. Res. Comm.</u> , 211:1016-1022 (1995).
	229	HAZAMA, et al., "Intranasal Immunization Against Herpes Simplex Virus Infection by Using a Recombinant Glycoprotein D Fused With Immunomodulating Proteins, the B Subunit of Escherichia Coli Heat-Labile Enterotoxin and Interleukin-2", <u>Immunology</u> , Vol. 78: 643-649 (1993).
	236	HILBICH et al., "Human and rodent sequence analogs of Alzheimer's amyloid β A4 share similar properties and can be solubilized in buffers of pH 7.4," <u>Eur. J. Biochem.</u> , 201:61-69 (1991).
	256	IKEDA, et al., "Immunogold labeling of cerebrovascular and neuritic plaque amyloid fibrils in Alzheimer's disease with an anti- β protein monoclonal antibody," <u>Lab. Invest.</u> , 57:446-449 (1987).
↓	308	JANUS, et al. A beta peptide immunization reduces behavioural impairment and plaques in a model of Alzheimer's disease. <u>Nature</u> . 408(6815):979-82 (2000).
CTW	257	JEN, et al., "Preparation and purification of antisera against different regions or isoforms of β -amyloid precursor protein," <u>Brain Research Protocols</u> , 2:23-30 (1997).

Examiner
SignatureDate
Considered

4/29/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3284621 v1

PTO/SB/05B (10-01)

Approved for use through 10/31/2002. OMB 0551-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

8

of

13

Complete If Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004752US

334	JOBLING and HOLMES, "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <u>Molecular Microbiology</u> , 5(7):1755-1767 (1991).
258	KIDA, et al., "Early amyloid- β deposits show different immunoreactivity to the amino- and carboxy-terminal regions of b-peptide in Alzheimer's disease and Down's syndrome brain," <u>Neuroscience Letters</u> , 193:105-108 (1995).
259	LANSBURY, PETER T., "Inhibition of amyloid formation: a strategy to delay the onset of Alzheimer's disease," <u>Curr. Ops. in Chemical Biology</u> , 1:260-267 (1997).
260	LEMERE, et al., "Nasal A β treatment induces anti-A β antibody production and decreases cerebral amyloid burden in PD-APP mice," <u>Annals of the NY Acad. Sci.</u> , 920:328-331 (2000).
261	MAK, et al., "Polyclonals to b-amyloid (1-42) identify most plaque and vascular deposits in Alzheimer cortex, but not striatum," <u>Brain Research</u> , 667:138-142 (1994).
263	MANN, et al., "Amyloid β protein (A β) deposition in chromosome 14-linked Alzheimer's disease: Predominance of A β ₄₂₍₄₃₎ ," <u>Annals of Neurology</u> , 40:149-158 (1996).
262	MANN, et al., "The extent of amyloid deposition in brain in patients with Down's syndrome does not depend upon the apolipoprotein E genotype," <u>Neuroscience Letters</u> , 198:105-108 (1995).
335	MASLIAH et al., " β -Amyloid peptides enhance α -synuclein accumulation and neuronal deficits in a transgenic mouse model linking Alzheimer's disease and Parkinson's disease," <u>PNAS</u> , 98(21):12245-12250 (2001).

Examiner
Signature

G. Mielke

Date

Considered

4/29/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3284621 v1

PTO/SB/09B (10-01)

Approved for use through 10/31/2002. OMB 0651-0081
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT.**

(use as many sheets as necessary)

Sheet 9

of 13

Complete if Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004752US

309	MATTSON, Cellular actions of beta-amyloid precursor protein and its soluble and fibrillogenic derivatives. <i>Physiol Rev.</i> 77(4):1081-132 (1997).
284	MCGEER, et al., "Immunohistochemical localization of beta-amyloid precursor protein sequences in Alzheimer and normal brain tissue by light and electron microscopy," <i>J. of Neuroscience Res.</i> 31:428-442 (1992).
238	MCNEAL et al., "Stimulation of local immunity and protection in mice by intramuscular immunization with triple- or double-layered rotavirus particles and QS-21," <i>Virology</i> , 243:158-166 (1998).
265	MENA, et al., "Monitoring pathological assembly of tau and β -amyloid proteins in Alzheimer's disease," <i>Acta Neuropathol.</i> 89:50-56 (1995).
310	MERLUZZI, et al. Humanized antibodies as potential drugs for therapeutic use. <i>Adv Clin Path.</i> 4(2):77-85 (2000).
311	MORGAN, et al. A beta peptide vaccination prevents memory loss in an animal model of Alzheimer's disease. <i>Nature</i> . 408(6815):982-5 (2000).
233	MORRIS, et al., "The Consortium to Establish a registry for Alzheimer's Disease (CERAD)," <i>Neurology</i> , 39:1159-65 (1989).
250	NAKAMURA et al., "Histopathological studies on senile plaques and cerebral amyloid angiopathy in aged cynomolgus monkeys," <i>Exp. Anim.</i> , 43:711-718 (1995).
268	NAKAMURA, et al., "Carboxyl end-specific monoclonal antibodies to amyloid β protein (A β) subtypes (A β 40 and A β 42(43) differentiate Ab in senile plaques and amyloid-angiopathy in brains of aged cynomolgus monkeys," <i>Neuroscience Letters</i> , 201:151-154 (1995).

Examiner
SignatureDate
Considered

4/29/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3284821 v1

PTO/SB/08B (10-01)

Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid Civil Control number

Substitute for form 1448B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 10 of 13

Complete If Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004762US

281	NAKAYAMA et al., "Histopathological studies of senile plaques and cerebral amyloidosis in cynomolgus monkeys," <u>J. of Med. Primatology</u> , 27:244-252 (1998).
235	NEWCOMBE and COHEN, "Solubility characteristics of isolated amyloid fibrils," <u>Biochim. Biophys. Acta</u> , 104:480-486 (1985).
329	NIEMANN, "Transgenic farm animals get off the ground," <u>Transgenic Research</u> 7:73-75 (1998).
280	PARDRIDGE et al., "Chimeric peptides as a vehicle for peptide pharmaceutical delivery through the blood-brain barrier," <u>Biochem. Biophys. Res. Comm.</u> , 148:307-313 (1987).
336	PERUTZ et al., "Amyloid fibers are water-filled nanotubes," <u>PNAS</u> , 99(8):5591-5595 (2002).
232	PETERSON, et al., "Recombinant Antibodies: Alternative Strategies for Developing and Manipulating Murine-Derived Monoclonal Antibodies," <u>Laboratory Animal Science</u> , 46(1):8-14 (1996).
269	PHILIPPE, et al. "Generation of a monoclonal antibody to the carboxy-terminal domain of tau by immunization with the amino-terminal domain of the amyloid precursor protein," <u>J. of Neuroscience Res.</u> , 48:709-719 (1996).
304	RASO, V.A., Grant application # 1 R43 AG 5746-01 (non-redacted version), "Immunotherapy of Alzheimer's Disease" (publication date unknown).
279	SAITO et al., "Vector-mediated delivery of ¹²⁵ I-labeled β -amyloid peptide Ab ¹⁻⁴⁰ through the blood-brain barrier and binding to Alzheimer disease amyloid of the Ab ¹⁻⁴⁰ vector complex," <u>PNAS USA</u> , 92:10227-10231 (1995).

Examiner Signature	<i>[Signature]</i>	Date Considered	4/29/03
--------------------	--------------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 808. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3284821 v1

CONSIDERED, DO NOT PRINT.

PTO/SB/01B (15-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 11 of 13

Complete if Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Sharon Turner
Attorney Docket Number	15270J-004752US

276	SAITOH, N. and K. IMAI, "Immunological analysis of Alzheimer's disease using anti- β -protein monoclonal antibodies," <u>Sapporo Med. J.</u> , 60:309-320 (1991).
277	SASAKI et al., "Human choroid plexus is an uniquely involved area of the brain in amyloidosis: a histochemical, immunohistochemical and ultrastructural study," <u>Brain Res.</u> , 755:193-201 (1997).
312	SCHENK, et al. Immunotherapy with beta-amyloid for Alzheimer's disease: a new frontier. <u>DNA Cell Biol.</u> 20(11):879-81 (2001).
270	SCHENK, et al., " β -peptide immunization," <u>Arch. Neurol.</u> , 57:934-938 (2000).
313	SELKOE, The cell biology of beta-amyloid precursor protein and presenilin in Alzheimer's disease. <u>Trends Cell Biol.</u> 8(11):447-53 (1998).
330	SIGMUND, "Viewpoint: Are Studies in Genetically Altered Mice Out of Control," <u>Arterioscler Thromb Vasc Biol.</u> , 20:1425-1429 (2000).
314	SIGURDSSON, et al. In vivo reversal of amyloid-beta lesions in rat brain. <u>J Neuropathol Exp Neurol.</u> 59(1):11-17 (2000).
315	SINHA, et al. Recent advances in the understanding of the processing of APP to beta amyloid peptide. <u>Ann N Y Acad Sci.</u> 920:206-8 (2000).
337	SKOLNICK and FETROW, "From genes to protein structure and function: novel applications of computational approaches in the genomic era," <u>Trends in Biotech.</u> , 18(1):34-39 (2000).
319	SMALL, et al. Alzheimer's disease and Abeta toxicity: from top to bottom. <u>Nat Rev Neurosci.</u> 2(8):595-8. (2001).

Examiner
SignatureDate
Considered

4/29/03

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 808. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3264621 v1

PTO/SB/043 (12-01)
 Approved for use through 10/31/2002. OMB 0651-0031
 U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 12 of 13

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schank
Art Unit	1647
Examiner Name	Sharon Turner-A (CHOUS)
Attorney Docket Number	15270J-004752US

316	SOTO, et al. Beta sheet breaker peptides inhibit fibrillogenesis in a rat brain model of amyloidosis: implications for Alzheimer's therapy. <i>Nat Med.</i> 4(7):822-6 (1998).
271	ST. GEORGE-HYSLOP, PETER H. and DAVID A. WESTAWAY, "Antibody clears senile plaques," <i>Nature</i> , 40:116-117 (1999).
338	STEIN and JOHNSON, "Lack of Neurodegeneration in Transgenic Mice Overexpressing Mutant Amyloid Precursor Protein is Associated with Increased Levels of Transthyretin and Activation of Cell Survival Pathways," <i>The Journal of Neuroscience</i> , 22(17):7380-7388 (September 1, 2002).
272	SZENDREI, et al., "The effects of aspartic acid-bond isomerization on in vitro properties of the amyloid β -peptide as modeled with N-terminal decapeptide fragments," <i>Int. J. Peptide Protein Res.</i> , 47:289-296 (1996).
339	TENNENT et al., "Serum amyloid P component prevents proteolysis of the amyloid fibrils of Alzheimer's disease and systemic amyloidosis," <i>PNAS</i> , 92:4299-4303 (1995).
273	THORSETT, E.D. and L.H. LATIMER, "Therapeutic approaches to Alzheimer's disease," <i>Curr. Op. in Chem. Biology</i> , 4:377-382 (2000).
276	TJERNBERG et al., "Arrest of β -amyloid fibril formation by a pentapeptide ligand," <i>Journal of Biological Chemistry</i> , 271:8545-8548 (1996).
317	VEHMAS, et al. beta-Amyloid peptide vaccination results in marked changes in serum and brain Abeta levels in APP ^{swa/PS1.DeltaE9} mice, as detected by SELDI-TOF-based ProteinChip® technology. <i>DNA-Cell Biol.</i> (11):713-21 (2001).

Examiner
Signature

G. Hink

Date
Considered

4/29/03

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

* Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3284621 v1

PTO/85/048 (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 13 of 13

Complete if Known

Application Number	09/724,981
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Sharon Turner NICHOLS
Attorney Docket Number	15270J-004752US

274	WEINER et al., "Nasal administration of amyloid- β peptide decreases cerebral amyloid burden in a mouse model of Alzheimer's disease," <i>Annals of Neurology</i> , 48:567-579 (2000).
223	WISCONSIN ALUMNI RESEARCH FOUNDATION, "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals," U.S. Govt. Res. Develop. Rep., 70(24), 56. (Publication date unknown.)
275	WU, et al., "Drug targeting of a peptide radiopharmaceutical through the primate blood-brain barrier in vivo with a monoclonal antibody to the human insulin receptor," <i>J. Clin. Invest.</i> , 100:1804-1812 (1997).
292	YAMAGUCHI et al., Diffuse plaques associated with astroglial amyloid β protein, possibly showing a disappearing stage of senile plaques," <i>Acta Neuropathol.</i> , 95:217-222 (1998).
290	YOUNKIN, "Amyloid β vaccination: reduced plaques and improved cognition," <i>Nature Medicine</i> , 7:18-19 (2001).

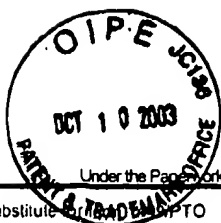
Examiner
SignatureDate
Considered

4/29/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3284621 v1



PTO/SB/08A (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for the USPTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Page

2

of

6

Complete if Known

Application Number	09/724,961
Filing Date	November 28, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Nichols
Attorney Docket Number	15270J-004752US

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
CSJ	343	EP	1 172 378	A1	01-16-2002			<input checked="" type="checkbox"/>
	351	WO	02/34878	A2	05-02-2002			<input checked="" type="checkbox"/>
	352	WO	02/34777	A1	05-02-2002			<input checked="" type="checkbox"/>
	341	WO	02/03911	A2	04-07-2001			<input checked="" type="checkbox"/>
	344	WO	01/90182	A2	11-29-2001			<input checked="" type="checkbox"/>
	348	WO	01/77167	A2	10-18-2001			<input checked="" type="checkbox"/>
	383	WO	97/10505	A1	03-20-1997			<input checked="" type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>

Examiner
Signature

Date
Considered

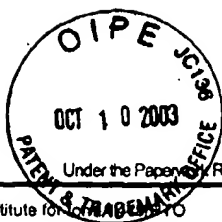
11/6/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (04-03)
Approved for use through 04/30/2003. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Page 3 of 6

Complete if Known

Application Number	09/724,961
Filing Date	May 26, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Nichols
Attorney Docket Number	15270J-004752US

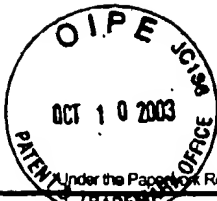
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CSO	391	AGUZZI et al., "Prion research: the next frontiers," <u>Nature</u> , 389:795-798 (1997).	—
	393	AKIYAMA et al., "Inflammation and Alzheimer's disease," <u>Neurobiology of Aging</u> , 21:383-421 (2000).	—
	372	AKIYAMA et al., "Occurrence of the Diffuse Amyloid β -Protein (A β) Deposits With Numerous A β -Containing Glial Cells in the Cerebral Cortex of Patients With Alzheimer's Disease," <u>Glia</u> , 25:324-331 (1999).	—
	404	BENJAMINI and LESKOWITZ, from <u>IMMUNOLOGY A Short Course</u> , Second Edition, Chapter 4, Antibody Structure, pages 49-65, 1991, published by Wiley-Liss, Inc., New York, New York.	—
	349	CHECK, "Battle of the Mind," <u>Nature</u> , 422:370-372 (March 2003).	—
	390	DIOMEDE et al., "Activation effects of a prion protein fragment [PrP-(106-126)] on human leucocytes," <u>Biochem. J.</u> , 320:53-570 (1996).	—
	363	DODART, "Immunotherapy for Alzheimer's disease: will vaccination work?" <u>Trends in Molecular Medicine</u> , 9(3):85-87 (2003).	—
	386	FRATUTSCHY et al., "Effects of Injected Alzheimer β -amyloid cores in rat brain," <u>PNAS</u> , 88:8362-8366 (1991).	—
	364	FURLAN et al., "Vaccination with amyloid- β peptide induces autoimmune encephalomyelitis in C57/BL6 mice," <u>Brain</u> , 126:285-291 (2003).	—
	388	GOLDFARB et al., "The Transmissible Spongiform Encephalopathies," <u>Ann. Rev. Med.</u> , 46:57-65 (1995).	—
V	397	GOLDSTEINS et al., "Goldsteins et al., Exposure of cryptic epitopes on transthyretin only in amypoid and in amyloidogenic mutants," <u>PNAS</u> , 96:3108-3113 (1999).	—
CSO	374	JAKES et al., "Characterisation of an Antibody Relevant to the Neuropathology of Alzheimer Disease," <u>Alzheimer Disease and Associated Disorders</u> , 9(1):47-51, Raven Press, Ltd., New York (1995).	—

Examiner Signature		Date Considered	11/6/03
--------------------	-------------------------------------------------------------------------------------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). * Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.86. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Page 4 of 6

Complete if Known

Application Number	09/724,961
Filing Date	May 26, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Nichols
Attorney Docket Number	15270J-004752US

NON PATENT LITERATURE DOCUMENTS

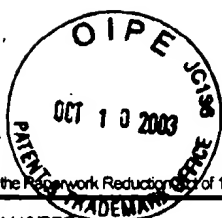
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	371	JOHNSTONE et al., Nuclear and Cytoplasmic Localization of the β -Amyloid Peptide (1-43) in Transfected 293 Cells," <u>Biochemical and Biophysical Research Communications</u> , 220:710-718 (1996).	<input checked="" type="checkbox"/>
	347	JORBECK et al., "Artificial <i>Salmonella</i> Vaccines: <i>Salmonella typhimurium</i> O-antigen-Specific Oligosaccharide-Protein Conjugates Elicit Opsonizing Antibodies that Enhance Phagocytosis," <u>Infection and Immunity</u> , May:497-502 (1981).	<input checked="" type="checkbox"/>
	389	KOVÁCS et al., "Mutations of the Prion Protein Gene Phenotypic Spectrum," <u>J. Neurol.</u> , 249:1567-1582 (2002).	<input checked="" type="checkbox"/>
	367	MONSONEGO et al., "Immune hyporesponsiveness to amyloid β -peptide in amyloid precursor protein transgenic mice: Implications for the pathogenesis and treatment of Alzheimer's disease," <u>PNAS</u> , 98(18):10273-10278 (2001).	<input checked="" type="checkbox"/>
	359	MUNCH et al., "Potential neurotoxic inflammatory response to A β vaccination in humans," (2002) <u>J. Neural Transm.</u> , 109:1081-1087.	<input checked="" type="checkbox"/>
	355	MUNSON ed., "Principals of Pharmacology: Basic Concepts & Clinical Applications," (1995), 47-48, Chapman & Hall, New York, New York.	<input checked="" type="checkbox"/>
	354	MUTSCHLER et al., "Drug Actions: Basic Principles and Therapeutic Aspects," (1995) 7, 11-12, <u>medpharm</u> Scientific Publishers, Stuttgart, Germany.	<input checked="" type="checkbox"/>
	350	NICOLL et al., "Neuropathology of human Alzheimer's disease after immunization with amyloid- β peptide: a case report," <u>Nature Medicine</u> , 9(4):448-452 (April 2003).	<input checked="" type="checkbox"/>
	398	PALHA et al., "Antibody recognition of amyloidogenic transthyretin variants in serum of patients with familial amyloidotic polyneuropathy," <u>J. Mol. Med.</u> , 7:703-707 (2001).	<input checked="" type="checkbox"/>
	406	PAN et al., "Antibodies to β -Amyloid Decrease the Blood-to-Brain Transfer of β -Amyloid Peptide," <u>Exp. Biol. Med.</u> , 227(8):609-615 (2002).	<input checked="" type="checkbox"/>
	394	PRUSINER et al., "Ablation of the prion protein (PrP) gene in mice prevents scrapie and facilitates production of anti-PrP antibodies," <u>PNAS</u> , 90:10608-10612 (1993).	<input checked="" type="checkbox"/>

Examiner Signature		Date Considered	11/6/03
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Page 5 of 6

Complete if Known

Application Number	09/724,961
Filing Date	May 26, 2000
First Named Inventor	Schenk, Dale B.
Art Unit	1647
Examiner Name	Nichols
Attorney Docket Number	15270J-004752US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ESD	396	SIGURDSSON et al., "Anti-priori antibodies for prophylaxis following prion exposure in mice," <u>Neurosciences Letters</u> , 336:185-187 (2003).	—
	384	SIGURDSSON et al., "Immunization Delays the Onset of Prion Disease in Mice," <u>American Journal of Pathology</u> , 161:13-17 (2002).	—
	400	SIGURDSSON et al., "A safer vaccine for Alzheimer's disease?," <u>Neurobiology of Aging</u> , 23:1001-1008 (2002).	—
	368	SIPE, "Amyloidosis," <u>Annu. Rev. Biochem.</u> , 61:947-975 (1992).	—
	369	SPOONER et al., "The generation and characterization of potentially therapeutic A β antibodies in mice: differences according to strain and immunization protocol," <u>Vaccine</u> , 21:290-297 (2002).	—
	361	SU et al., "Intravascular infusions of soluble β -amyloid compromise the blood-brain barrier, activate CNS Glial cells and induce peripheral hemorrhage," <u>Brain Research</u> , 818:105-107 (1999).	—
	392	TAL et al., "Complete Freund's Adjuvant Immunization Prolongs Survival in Experimental Prion Disease in Mice," <u>Journal of Neuroscience Research</u> , 71:286-290 (2003).	—
	399	TAN et al., "Amyloidosis," <u>Histopathology</u> , 25:403-414 (1994).	—
	375	TSUZUKI et al., "Amyloid β protein in rat soleus in choroquine-induced myopathy using end-specific antibodies for A β 40 and A β 42: immunohistochemical evidence for amyloid β protein," <u>Neuroscience Letters</u> , 2002:77-80 (1995).	—
	387	WELDON et al., "Neurotoxicity of A β Peptide: Confocal Imaging of Cellular Changes Induced by - Amyloid in Rat CNS <i>In Vivo</i> ," <u>Society for Neuroscience Abstracts</u> , 22(Part 1) (1996).	—
ESD	385	WISNIEWSKI et al., "Therapeutics in Alzheimer's and Prion Diseases," <u>Biochemical Society Transactions</u> , 30(4):574-587 (2002).	—

Examiner Signature		Date Considered	11/6/03
--------------------	--	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.
60020204 v2